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| APPLICATION NO.   | FILING DATE     | FIRST NAMED INVENTOR   | ATTORNEY DOCKET NO.        | CONFIRMATION NO. |
|---|-----------------|------------------------|----------------------------|------------------|
| 10/518,558  | 12/22/2004      | Richard Michael Taylor | 5035-203US//P29,654<br>USA | 8427             |
| Richard C Woo   | 7590 12/21/2007 |                        | EXAM                       | INER             |
| Richard C Woodbridge Synnestvedt Lechner & Woodbridge  KIM, KENNETH S |                 |                        |                            | NNETH S          |
| PO Box 592<br>Princeton, NJ 0   | 08542-0592      |                        | ART UNIT PAPER NUMBER 2111 |                  |
| Timecton, 145 C   | 70342-0372      |                        |                            |                  |
|   |                 |                        |                            |                  |
|   |                 |                        | MAIL DATE                  | DELIVERY MODE    |
|   |                 |                        | 12/21/2007                 | PAPER            |

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

|  |   |  | $\mathcal{U}$ |  |  |  |  |
|--|---|--|---------------|--|--|--|--|
|  | Application No.   | Applicant(s)   |               |  |  |  |  |
| ·  | 10/518,558  | TAYLOR, RICHARD MI   | CHAEL         |  |  |  |  |
| Office Action Summary  | Examiner  | Art Unit   |               |  |  |  |  |
|  | Kenneth S. KIM  | 2111   |               |  |  |  |  |
| The MAILING DATE of this communication appears on the cover sheet with the correspondence address  |   |  |               |  |  |  |  |
| Period for Reply  A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period w  - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). | ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim rill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE   | N. nely filed the mailing date of this communic D (35 U.S.C. § 133). |               |  |  |  |  |
| Status   |   |  |               |  |  |  |  |
| 1) Responsive to communication(s) filed on <u>07 No</u>  |   |  |               |  |  |  |  |
| ,  | action is non-final.  |  |               |  |  |  |  |
|  | Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. |  |               |  |  |  |  |
| Disposition of Claims  |   |  |               |  |  |  |  |
| 4) ⊠ Claim(s) <u>1-43</u> is/are pending in the application. 4a) Of the above claim(s) is/are withdray 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) <u>1-43</u> is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction and/or  | vn from consideration.  | KENNETH S. KIM   |               |  |  |  |  |
| Application Papers   | •   |  |               |  |  |  |  |
| 9) The specification is objected to by the Examine   | r.  |  |               |  |  |  |  |
| 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.   |   |  |               |  |  |  |  |
| Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  |   |  |               |  |  |  |  |
| Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex  |   |  |               |  |  |  |  |
| Priority under 35 U.S.C. § 119   |   |  |               |  |  |  |  |
| 12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:  1. Certified copies of the priority document: 2. Certified copies of the priority document: 3. Copies of the certified copies of the priority application from the International Bureau * See the attached detailed Office action for a list   | s have been received.<br>s have been received in Applicat<br>rity documents have been receive<br>u (PCT Rule 17.2(a)).  | ion No<br>ed in this National Stage                                  | e             |  |  |  |  |
| Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO/SB/08)  Paper No(s)/Mail Date   | 4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:   | ate  |               |  |  |  |  |

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- 1. Claims 1-43 remain for examination.
- 2. The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the various elements of the invention recited in claim 1 must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

Applicant is reminded of labeling various elements in the figures.

3. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

4. Claims 1-43 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention.

Applicant failed to adequately teach how to make and use a processor generation tool automatically adapting an instruction, and it would require a person of ordinary skill in the art undue experimentation to develop such a means performing the method. There is no description of physical functions performed in the process of automatically adapting.

5. The following is a quotation of the second paragraph of 35 U.S.C. 112:

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The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

6. Claims 1-43 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 1, "automatically adapting" is an abstract term, and it is not clear what physical functions are performed.

7. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.
- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 8. Claims 1 and 43 are rejected under 35 U.S.C. 102(e) as being anticipated by Killian et al, U.S. Patent No. 6,477,683, cited in the previous office action.

<u>Killian et al</u> teaches the invention as claimed as set forth in the previous office action incorporated herein by reference and further teaches the processor generation tool automatically adapting instructions (col. 26, line 63; col. 27, line 48) and outputting

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hardware description (134) and translated executable code (by compiler; col. 26, line 46; the inherent step of translating instructions is known).

9. Applicant's arguments filed November 7, 2007 have been fully considered but they are not persuasive.

Applicant argued that the reference does not teach automatic derivation of an instruction set but teaches selection of a subset from previously customizable set of options.

The reference teaches automatic recognition (col. 26, line 63; col. 27, line 48) as well as user recognition.

The limitation of "automatically adapting (or derivation)" is so broad and vague, it encompasses any form of adapting including the method taught in the reference. The claims do not recite what specific physical operations are performed in the automatic process of adapting.

10. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Wang et al taught a method of adapting instructions automatically (abstract; col. 7, line 52; col. 8, line 28).

Gupta et al taught a method of automatic design of VLIW instruction format.

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11. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kenneth S KIM whose telephone number is (571) 272-3627. The examiner can normally be reached on M-F (8:30-17:00).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mark Rinehart can be reached on (571) 272-3632. The fax phone numbers for the organization where this application or proceeding is assigned are (571) 273-8300 for all communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (571) 272-2100.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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December 19, 2007

KENNETH S KIM— RIMARY EXAMINER